

ATTORNEYS AT LAW



Robert Greene Sterne Edward J. Kessler Jorge A. Goldstein David K.S. Cornwell Robert W. Esmond Tracy-Gene G. Durkin Michael B. Ray Robert E. Sokohl Eric K. Steffe Michael Q. Lee Steven R. Ludwig John M. Covert Linda E. Alcorn Robert C. Millonig Lawrence B. Bugaisky Donald J. Featherston Michael V. Messinger Iudith U. Kim Timothy J. Shea, Jr. Patrick E. Garrett Heidi L. Kraus Edward W. Yee Albert L. Fero\* Donald R. Banowit Peter A. Jackman Teresa U. Medler Jeffrey S. Weaver Kendrick P. Patterson Vincent L. Capuano Eldora Ellison Floyd Thomas C. Fiala Brian J. Del Buono Virgil Lee Beaston Kimberly N. Reddick Theodore A. Wood Ehzabeth J. Haanes Joseph S. Ostroff Frank R. Cottingham Christine M. Lhulier Rea Lynn Prengaman Jane Shershenovich' Lawrence J. Carroll' George S. Bardmesser Daniel A. Klein' Jason D. Eisenberg Michael D. Specht Jason D. Eisenberg Michael D. Specht LuAnne M. DeSantis John J. Figueroa Ann E. Summerfield Liera S. Coston' Aric W. Ledford' Michael D. Specht Jessica L. Parezo Timothy A. Doyle\* Cynthia M. Bouchez Nicole D. Dretar\* Ted J. Ebersole

Registered Patent Agents Karen R. Markowicz Nancy J. Leith Helene C. Carlson Gaby L. Longsworth Matthew J. Dowd Aaron L. Schwartz Mary B. Tung Katina Y. Pei Quach Bryan L. Skelton Robert A. Schwartzman ieresa A. Coteria Jeffrey S. Luyfdgren Victoria SyRutherford Eric D. Hybes Michellé K. Holoubek Robort H. DeSelms Simon J. Elliott Julie A. Heider Mita Mukerjee Scott M. Woodhouse Of Counsel Kenneth C. Bass III Evan R. Smith Marvin C. Guthrie

\*Admitted only in Maryland \*Admitted only in Virginia •Practice Limited to Federal Appropri

February 24, 2004

MAR 0 2 2004

WRITER'S DIRECT NUMBER: (202) 772-8582 INTERNET ADDRESS: PJACKMAN@SKGF.COM

Art Unit 1646

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Re:

U.S. Utility Patent Application

Application No. 09/827,937; Filed: April 9, 2001 For: Human G-Protein Coupled Receptors

Inventors:

Li et al.

Our Ref:

1488.1220003/EKS/PAJ

Sir:

Transmitted herewith for appropriate action are the following documents:

- 1. Fee Transmittal;
- 2. First Supplemental Information Disclosure Statement Filing Under 37 C.F.R. § 1.97(c);
- 3. Form PTO-1449 (4 pages) listing fourteen (14) documents;
- 4. Document Nos. AN1, AO1, AR5, AS5, AT5, AR6, AS6, AT6, AR7, AS7, AT7, AR8, AS8 and AT8;
- Credit Card Payment Form in the amount of \$180.00 to cover filing fee;
   and
- 6. One return postcard.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

Commissioner for Patents February 24, 2004 Page 2

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Peter A. Jackman Attorney for Applicants

Registration No. 45,986

PAJ/aye Enclosures

CAT SOLIT	MAF	102	2 200	4					
EB 2 1 2004 EB								h 07/31/2006. ON	
Under the Experwork Reduction Act of 1995, no persons are requin	ed to re	espond t	o a colle					EPARTMENT OF s a valid OMB co	
ET TO A NOMITTA	- 4	ويواري	10.8 ( M		Cor	nplete i	if Known	•	1
ETRANSMITTA	ᆸ	Applic	cation N	lumbe	er	09/827,	937		
for EV 2004		Filing	Date			April 9,			
for FY 2004		<u>-</u>	Vamed	Inven		Yi Li			
Effective 10/01/2003. Patent fees are subject to annual revision.			iner Na				· · · · · · · · · · · · · · · · · · ·		
Applicant claims small entity status. See 37 CFR 1.27	1	Art U				Basi, N.			
TOTAL AMOUNT OF PAYMENT (\$) 180.00				leat N	$\overline{}$	1646	0003/EKS/	PAI	<del></del>
		Allon	ney Doo						
METHOD OF PAYMENT (check all that apply)				FEE	CAL	CULA	ION (con	tinued)	
Check X Credit card Money Order Other* None		DDITI			S				
*Charge any deficiencies or credit any overpayments in Deposit Account: the fees to Deposit Acct. No. 19-0036.		Entity							
Deposit	Fee Code	Fee (\$)	Fee I	Fee (\$)		Fee C	escription	1	Fee Paid
Account Number 19-0036	1051	130	2051	65	Surcha	arge - late	filing fee or o	oath	
Deposit Account Sterne Kessler, Goldstein & Fox P.L.L.C.	1052	50	2052		Surcha cover :		provisional f	iling fee or	
Name The Director is authorized to: (check all that apply)	1053	130	1053			nglish spe	cification		_
Charge fee(s) indicated below Credit any overpayments	1812	2,520	1812 2	,520	For filir	ng a reque	st for ex par	te reexamination	
Charge any additional fee(s) or any underpayment of fee(s)	1804	920*	1804	920*		sting publ	ication of SIF	R prior to	
Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.	1805	1,840*	1805 1	,840*	Reque		lication of SII	R after	
FEE CALCULATION	1251	110	2251	55			ply within firs	st month	
1. BASIC FILING FEE	1252	420	2252	210	Exten	sion for re	ply within se	cond month	
Large Entity Smail Entity	1253	950	2253	475	Exten	sion for re	ply within thi	rd month	
Fee Fee Fee Fee Pee Description Fee Paid Code (\$) Code (\$)	1254	1,480	2254	740	Exten	sion for re	ply within for	urth month	
1001 770 2001 385 Utility filing fee	1255	2,010	2255	1,005	Exten	sion for re	ply within fift	h month	
1002 340 2002 170 Design filing fee	1401		2401	165		of Appea			
1003 530 2003 265 Plant filing fee	1402		2402	165			support of an	appeal	
1004 770 2004 385 Reissue filing fee	1403	1,510	2403 1451		•	est for ora		se proceeding	
1005 160 2005 80 Provisional filing fee	1451		2452				ne a public d e - unavoidat		
SUBTOTAL (1) (\$) 0.00		1,330	2453	665			e - unintentic		
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE		1,330	2501				(or reissue)		
Fee from Ext <u>ra Claims below</u> Fee Paid	1502		2502			n issue fe			
Total Claims 20 **= X =	1503	640	2503	320	Plant	issue fee			
Claims	1460	130	1460	130	Petitio	ons to the	Commission	er	
	1807	50	1807	50		•	under 37 CF		100.00
Large Entity   Small Entity	1806	180	1806	180				isclosure Stmt	180.00
Code (\$) Code (\$)	8021	40	8021	40	prope	ung each rty (times	patent assig number of pr	roperties)	
1202 18 2202 9 Claims in excess of 20 1201 86 2201 43 Independent claims in excess of 3	1809	770	2809	385		a submiss FR 1.129(	sion after fina	I rejection	
1203 290 2203 145 Multiple dependent claim, if not paid	1810	770	2810	385	For ea	ach additio	onal invention		
1204 86 2204 43 ** Reissue independent claims over original patent	180	1 770	2801	385			FR 1.129(b) ntinued Exan	) nination (RCE)	
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent	1802		1802		Requ		pedited exam		
SUBTOTAL (2) (\$) 0.00	Othe	r fee (sp	ecify) _			F			]
**or number previously paid, if greater; For Reissues, see above	*Red	luced by	Basic F	iling F	ee Paid	<sup>1</sup> S	UBTOTAL	(3) <sub>(\$)</sub>	180.00
SUBMITTED BY							(Complete (	if applicable))	
Nome (Districtions)		Registra			45.9	86	Telephone	(202) 37	1-2600
Peter A. Jackman		(Attorney)	Agenti	۰.	43.7	<u></u>	Date	2/14/04	

Signature WARNING: Information on this form may become public. Credit card information should not

be included on this form. Provide credit card information and authorization on PTO-2038. This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

## MAR 0 2 2004



## IN THE UNITED STATES PATENT-AND TRADEMARK OFFICE

In re application of:

Li et al.

Appl. No.: 09/827,937

Filed: April 9, 2001

For: Human G-Protein Coupled

Confirmation No.: 8058

Art Unit: 1646

Examiner: Basi, N.

Atty. Docket: 1488.1220003/EKS/PAJ

First Supplemental Information Disclosure Statement Filing Under 37 C.F.R. § 1.97(c)

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. The numbering on this First Supplemental Information Disclosure Statement is a continuation of the numbering in Applicants' Information Disclosure Statement filed on August 21, 2001 in connection with the above-captioned application. Copies of the documents are provided.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection, or Notice of Allowance, or an action that otherwise closes prosecution in the application. Attached is our PTO-2038 action that Office Payment Form in the amount of \$180.00 in payment of the fee under 37 C.F.R. § 1.17(p).

Documents AN1, AO1, and AS8 were cited in a European search report (Document AT8) by a foreign patent office in a counterpart foreign application. Submission of an English language version of the search report that indicates the degree of relevance found by the foreign office is provided in satisfaction of the requirement for a concise explanation of relevance. 1138 OG 37, 38.

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO 1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

Sterne, Kessler, Goldstein & Fox P.L.L.C.

Peter A. Jackman Attorney for Applicants Registration No. 45,986

Date: Feb. 24, 2004

1100 New York Avenue, N.W. Washington, D.C. 20005-3934 (202) 371-2600

	<del></del>		<del></del>						Page 1 of 4		
	FEB ?	<u>₹ 2004</u>	PFICE		ATTY. DOCKET NO. 1488.1220003/EKS/PAJ 09/827,937						
	To !	ORM P	10/-1449	DISCLOSURE	FIRST NAMED INVENTOR Li et al.						
FIRST SUF	PLEMEN	PARETNI	ORMATION	DISCLOSURE	FILING DATE ART UNIT						
		STATE	MENT		March 9, 2001	ITC	1646	·			
EVANINED		DOCU	MENT	U.S. PA	TENT DOCUMEN	113					
EXAMINER INITIAL		NUMB		DATE	NAME	CLAS	s	SUB-CLASS	FILING DATE		
	AA										
	AB					,		<u></u>			
	AC	1						Ann			
	AD			-		,	MAR	7 5 5004			
	AE										
	AF							and the same			
	AG					ŕ					
	AH							- 1 THE	90 M		
	Al										
	AJ										
	AK										
				FOREIGN	PATENT DOCUM	MENTS					
EXAMINER INITIAL		DOC	UMENT BER	DATE	COUNTRY	CLAS	ss	SUB-CLASS	TRANSLATION		
		1.10111							Yes		
	AL1								No Yes		
	AM1								No		
	AN1	wo	91/15583 A1	10/17/1991	WIPO				Yes No		
	AO1	wo	99/35106 A2	07/15/1999	WIPO				Yes No		
	AP1								Yes No		
		-T	OTHER (I	ncluding Auth	or, Title, Date, P	ertinent Pages,	etc.)				
	AR	5	Birkenbach Protein-Co Microbiolog	upled Peptide l	ostein-Barr Virus-I Receptors," <i>J. Vir</i>	induced Genes: lol. 67:2209-2220	First Ly	ymphocyte-S rican Society	Specific G y for		
	AS	<u>5</u>	Connelly, K. 10:181-184,	P. and De Witt, Elsevier Science	L.D., "Neurologic Co e Inc. (1994)	omplications of Inf	ectious	Mononucleos	sis," Ped. Neurol.		
	AT	<u>5</u>	Antigen 1 (E	BNA1): Immuno	clonal Antibodies Dir histologic Detection 98, The American S	n of EBNA1 in the	Maligna	ant Cells of Ho	incoded Nuclear odgkin's		
EXAMINER	!	_L					DATE C	ONSIDERED			
						MDED COO. D. "	Abr -:	ab altation if	t in conformance		

OIPE		·
		Page 2 of 4
FEB 2 1 2004 E	ATTY. DOCKET NO. 1488.1220003/EKS/PAJ	APPLICATION NO. 09/827,937
FORM PT 1449	FIRST NAMED INVENTOR	
A LAND	Li et al.	
FIRST SUPPLEMENTAL DEFORMATION DISCLOSURE	FILING DATE	ART UNIT
STATEMENT	March 9, 2001	1646

				U.S.	PATENT DOCUMEN	TS		
EXAMINER INITIAL			UMENT IBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
INTIAL	AA	11010	IDEIX	DAIL	177.00	02.00	000 00 100	
	AB							
	AC					MAR	<del>0 2 2004 -</del>	
	AD							
	AE	ļ		-				
						<b>L.</b>		
	AF							
	AG	-		*				
	АН							•
	Al			<del> </del>				
	AJ							
	AK	1				-		
				FORFI	SN PATENT DOCUM	FNTS		
EXAMINER				- CKEN				
INITIAL			CUMENT MBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL		*					Yes No
	АМ		-					Yes No
								Yes
	AN	1						No Yes
	AO							No Yes
	AP							No
	· · · · · · · · · · · · · · · · · · ·		OTHER	(Including A	uthor, Title, Date, Pe	rtinent Pages, etc.	)	
	AR	<u>6</u>	Epstein-B	arr virus infecti	ion of Epstein-Barr virus on associated with Kawa Book, Inc. (1993)	DNA in cardiac and a saki disease-like cord	ortic tissues from	m chronic, active urysms," <i>J. Ped.</i>
	AS	<u>6</u>			nmon motif in G-protein-c s. 7:649-658, ESCOM Sc			eceptors," J.
	АТ	6	Probst, W Biol. 11:1	.C., <i>et al.</i> , "Seq 20, Mary Ann I	uence Alignment of the C Liebert, Inc., Publishers (	G-Protein Coupled Re 1992)	eceptor Superfa	mily," <i>DNA &amp; Cell</i>
EVALUEE				,		10	0010125255	
EXAMINER						DATE	CONSIDERED	

**EXAMINER**: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

. VIPE		
		Page 3 of 4
FEB 2 4 2004 (L)	ATTY. DOCKET NO. 1488.1220003/EKS/PAJ	APPLICATION NO. 09/827,937
FORM P 1449	FIRST NAMED INVENTOR	
10	Li et al.	
FIRST SUPPLEMENTAL OF ORMATION DISCLOSURE	FILING DATE	ART UNIT
HADSTATEMENT	March 9, 2001	1646

				U.S.	PATENT DOCUMEN	ITS		
EXAMINER INITIAL			UMENT IBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
11111/12	AA	1	, oer	O, ( ) C	147 4442	02.00		
	AB	<del>                                     </del>						
	AC					8440		
	AD	-				MAR	0 2 2004	
		ļ				,		
	AE					- many the second of the secon	~~~	
	AF						2	
	AG	<u> </u>	•			-		= ( =
	AH			·				
	Al				<u> </u>			
	AJ							<u> </u>
	AK							<u> </u>
							<b></b>	
EXAMINER		DC	CUMENT	FOREIG	N PATENT DOCUM	IENTS		
INITIAL		NU	MBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION Yes
-	AL							No
	АМ							Yes No
	AN							Yes No
	AO							Yes No
	AP							Yes
	AP	[	OTHER (	Including Au	uthor, Title, Date, Pe	ertinent Pages, etc.)		No
	AR	7	Reiger, R., Verlag, Nev	et al., , Glossa v York, NY, pp	nry of Genetics and Cyto . 17-19 (1976)	ogenetics, 4 <sup>th</sup> Ed., Reige	er, R., <i>et al</i> ., ed	ls., Springer-
	AS	7	Schweickar Receptor E Inc. (1994)	t, V.L., <i>et al.</i> , " ncoded on Hu	Cloning of Human and man Chromosome 17q	Mouse EBI1, a Lympho 12-q21.2," <i>Genomics</i> 23	id-Specific G-F 8:643-650, Aca	Protein-Coupled demic Press,
	АТ	7	Tyson, A.A. Cardiogenio	, Jr., et al., "Ac Shock," <i>Sout</i>	cute Epstein-Barr Virus h. Med. J. 82:1184-118	Myocarditis Simulating 7, Southern Medical As	Myocardial Infa sociation (1989	arction With
EXAMINER		•				DATE C	ONSIDERED	
EXAMINER: In and not conside	itial if refe red. Inclu	rence c	onsidered, whe	ther or not citation	on is in conformance with lication to Applicant.	MPEP 609. Draw line throu	igh citation if not	in conformance

229362\_1.DOC

OIPE			
		Page 4	l of 4
FEB 7 1 2004	ATTY. DOCKET NO. 1488.1220003/EKS/PAJ	APPLICATION NO. 09/827,937	
ORM PTO-1446	FIRST NAMED INVENTOR		-
A COUNTY	Li et al.		
FIRST SUPPLEMENTAL IMPERMATION DISCLOSURE	FILING DATE	ART UNIT	
STATEMENT	March 9, 2001	1646	

				U.S.	PATENT DOCUMENT	rs			
EXAMINER		DOCU	JMENT	DATE	NAME	CLASS	SUB-CLASS	FILING DATE	
INITIAL	AA	INOIVIE	DEK	DAIL	INAME	00.00	000 00.00		
	AB								
<u> </u>	AC								
	AD								
							MAR 0 2 2004		
	AE								
	AF								
	AG		и м				-		
	АН								
	Al								
	AJ			-					
	AK	<u> </u>							
				EOREI	GN PATENT DOCUM	FNTS			
EXAMINER			CUMENT				OUD CLASS	TRANSLATION	
INITIAL		NUI	MBER	DATE	COUNTRY	CLAS	SS SUB-CLASS	TRANSLATION Yes	
	AL							No Yes	
	AM	_						No Yes	
	AN							No Yes	
	AO							No	
	AP		-			1		Yes No	
	173		OTHER	(Including A	Author, Title, Date, Pe	rtinent Pages,	etc.)		
	AR	8	Van Broc EDG-6,"	klyn, J.R., <i>et a</i> Blood 95:2624	I., "Sphingosine-1-phosph -2629, American Society	nate is a ligand fo for Hematology (A	r the G protein-coup April 2000)	oled receptor	
	AS	8	Databas	e EMBL, Acc	ession No. AA254425,	Marra, M., et a	I., (first available I	March 1997)	
	AT	8	Partial European Search Report for European Application No. 03 01 5456, mailed December 17, 2003, European Patent Office, Netherlands						
EXAMINER			1			C	ATE CONSIDERE	<u> </u>	
EXAMINER: I	nitial if refe	erence c	onsidered, w	hether or not cita	ation is in conformance with	MPEP 609. Draw li	ne through citation if r	not in conformance	
and not consid	ered. Ind	ude cop	y of this form	with next comm	unication to Applicant.				